LAND APPLICATION SITE

STEPHEN O MAST SITE

LUSOM 1-7

LUNENBURG COUNTY

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 11/13/21 between Phyllis Mast referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:
The Landowner is the owner of record of the real property located in Lunenburg, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
	48-A-45		

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☒ The Landowner is the sole owner of the properties identified herein.
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

Class B biosolids	Water treatment residuals	Food processing waste	Other industrial sludges
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

Printed name	Mailing Address	Landowner Signature
Phyllis Mast By: self	897 Hite Lane Kenbridge VA 23944	Phyllis Mast
Title* owner	Phone No. 804 894 0200	
*☐ I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.		
*☐ I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

Permittee:
Recyc Systems, Inc, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name	Mailing Address	Permittee- Authorized Representative Signature
Susan Trumbo	PO Box 562, Remington Virginia 22734	
Title Technical Manager	Phone No. 540-547-3300	

Permittee: Recyc Systems, Inc County or City: Amherst

Landowner: Phyllis Mast

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

2. Public Access
   a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
   b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
   c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3. Crop Restrictions:
   a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
   b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
   c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
   d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
   e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:
   Following biosolids application to pasture or hayland sites:
   a. Meat producing livestock shall not be grazed for 30 days,
   b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
   c. Other animals shall be restricted from grazing for 30 days;

5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;

6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Phyllis Mast 1-13-21

Landowner's Signature Date

Phyllis Mast 897 Hite Ln Kenbridge VA 23944 1-13-21

Operator's Signature mailing address & phone Date

Recyc Systems, Inc

Stephen O. Mast Site

County	Owner	Operator	FSA Tract No.	Recyc Field No.	Acres	Date of Last Application
Lunenburg	Stephen O. Mast	Stephen O. Mast	T3848 Field 29	LUSOM 1	8.7	
			T3848 Field 25	LUSOM 2	11.3	
			T3848 Fields 22,24	LUSOM 3	23.8	
			T3848 Field 6	LUSOM 4	9.1	
			T3848 Field 6	LUSOM 5	7.1	
			T3848 Field 14	LUSOM 6	5.1	
			T3848 Field 7	LUSOM 7	12.5	

RECYC SYSTEMS, INC
FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/Shallow	Surf/Leach	Freq Flood			
LUSOM 1	8.7	-	-	-	-	CM10	TM48(A),P45	3848
LUSOM 2	11.3	-	-	-	-	CM10	TM48(A),P45	3848
LUSOM 3	23.8	-	-	-	-	CM10	TM48(A),P45	3848
LUSOM 4	9.1	-	-	-	-	CM10	TM48(A),P45	3848
LUSOM 5	7.1	-	-	-	-	CM10	TM48(A),P45	3848
LUSOM 6	5.1	-	-	-	-	CM10	TM48(A),P45	3848
LUSOM 7	12.5	-	-	-	-	CM10	TM48(A),P45	3848
TOTAL ACRES IN SITE	77.6							

Report Number:
R09190-0060

Account Number:
70594

A&L Eastern Laboratories, Inc.

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401
Fax No. (804) 271-6446 Email: office@al-labs-eastern.com

Send To: RECYC SYSTEMS INC
POB 562
REMINGTON, VA 22734

Grower: STEPHEN O MAST/LUSOM
LUNENBURG

Submitted By: J B CRENSHAW

Farm I D:

Field I D:

SOIL ANALYSIS REPORT

Page: 1 **Date Received:** 7/9/2009 **Date of Analysis:** 7/10/2009 **Date of Report:** 7/13/2009

Analytical Method(s):
Mehlich III

Sample Number	Lab Number	Organic Matter %	Organic Matter ENR lbs/A	Organic Matter ENR Rate	Phosphorus Available ppm	Phosphorus Available Rate	Phosphorus Reserve ppm	Phosphorus Reserve Rate	Potassium K ppm	Potassium K Rate	Magnesium MG ppm	Magnesium MG Rate	Calcium CA ppm	Calcium CA Rate	Sodium NA ppm	Sodium NA Rate	pH Soil pH	pH Buffer Index	Acidity H meq/100g	C.E.C. meq/100g
1	144123	2.0	82	L L	52	H H			82	M M	148	H H	734	M M			6.6	6.9	0.3	5.4
2	144124	1.3	71	L L	260	V VH			63	L L	86	H H	483	M M			6.5	6.9	0.3	3.6
3	144125	1.8	79	L L	113	V VH			68	L L	148	V VH	477	M M			5.8	6.8	0.9	4.7
4	144126	1.7	77	L L	63	H H			102	H H	152	V VH	521	M M			6.2	6.9	0.6	4.7
6	144127	2.3	91	L L	33	M M			59	L L	88	H H	356	L L			5.4	6.8	1.1	3.7

Sample Number	Percent Base Saturation K %	Mg %	Ca %	Na %	H %	Nitrate NO3-N ppm	Nitrate Rate	Sulfur SO4-S ppm	Sulfur Rate	Zinc ZN ppm	Zinc Rate	Manganese MN ppm	Manganese Rate	Iron FE ppm	Iron Rate	Copper CU ppm	Copper Rate	Boron B ppm	Boron Rate	Soluble Salts ms/cm	Soluble Salts Rate	Chloride CL ppm	Chloride Rate	Aluminum AL ppm	Aluminum Rate
1	3.9	22.1	68.1		5.9																				
2	4.5	20.2	67.9		7.4																				
3	3.7	26.3	50.9		19.0																				
4	5.6	26.9	55.4		12.1																				
6	4.1	19.7	47.9		28.3																				

ALE-Soil

Values on this report represent the plant available nutrients in the soil.
Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High).
ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams).
Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to the sample(s) tested. Samples are retained a maximum of thirty days after testing. Soil Analysis prepared by:
A & L EASTERN LABORATORIES, INC.

by: Paul Chu

Paul Chu, Ph.D.

Report Number:
R09190-0060

Account Number:
70594

A&L Eastern Laboratories, Inc.

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401
Fax No. (804) 271-6446 Email: office@al-labs-eastern.com

Send To: RECYC SYSTEMS INC
POB 562
REMINGTON, VA 22734

Grower: STEPHEN O MAST/LUSOM
LUNENBURG

Submitted By: J B CRENSHAW

Farm I D:

Field I D:

SOIL ANALYSIS REPORT

Page: 2 **Date Received:** 7/9/2009 **Date of Analysis:** 7/10/2009 **Date of Report:** 7/13/2009

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7	14128	2.2	88	L	100	H			42	VL	115	H	585	M			6.2	6.9	0.6	4.5
2A	14129	1.6	78	L	90	H			54	L	73	H	373	M			6.0	6.9	0.5	3.1

Sample Number	Percent Base Saturation K %	Mg %	Ca %	Na %	H %	Nitrate NO3-N ppm	Nitrate Rate	Sulfur SO4-S ppm	Sulfur Rate	Zinc ZN ppm	Zinc Rate	Manganese MN ppm	Manganese Rate	Iron FE ppm	Iron Rate	Copper CU ppm	Copper Rate	Boron B ppm	Boron Rate	Soluble Salts ms/cm	Soluble Salts Rate	Chloride CL ppm	Chloride Rate	Aluminum AL ppm	Aluminum Rate
7	2.4	21.1	64.4		12.1																				
2A	4.5	19.7	60.4		15.4																				

ALE-Soil

Values on this report represent the plant available nutrients in the soil.
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To: RECYC SYSTEMS INC
POB 562
REMINGTON, VA 22734

For: STEPHEN O MAST/LUSOM
LUNENBURG

Copy To: J B CRENSHAW

Attn: SUSAN TRUMBO

Date Received: 07/09/2009
Date Reported: 07/13/2009

SOIL FERTILITY RECOMMENDATIONS

Sample ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
1	Adj pH To 6.8		1.0	0	0	0	0						
2	Adj pH To 6.8		1.0	0	0	0	0						
3	Adj pH To 6.8		1.5	0	0	0	0						
4	Adj pH To 6.8		1.3	0	0	0	0						
6	Adj pH To 6.8		1.8	0	0	0	0						

ALE-Rec

Paul Chu, Ph.D.

Report Number:
R09190-0060
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7	Adj pH To 6.8		1.3	0	0	0	0						
2A	Adj pH To 6.8		1.3	0	0	0	0						

ALE-Rec

Paul Chu, Ph.D.

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet
(Fall, 2009-Winter, 2010)
Stepehn O Mast
Planner: Recyc Systems

Tract: 3848 Location **Location: Lunenburg**
(N = N based, P = P based, 15P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
29/LUSOM 1(N)	9/9	2009	Hay/Pasture	100-50-95	0/0				100-50-95	N/A			
25/LUSOM 2(N)	11/11	2009	Hay/Pasture	100-50-95	0/0				100-50-95	N/A			
22 24/LUSOM 3(N)	24/24	2009	Hay/Pasture	100-50-95	0/0				100-50-95	N/A			
6/LUSOM 4(N)	9/9	2009	Hay/Pasture	100-50-95	0/0				100-50-95	N/A			
6/LUSOM 5(N)	7/7	2009	Hay/Pasture	100-50-95	0/0				100-50-95	N/A			
14/LUSOM 6(N)	5/5	2009	Hay/Pasture	100-50-95	0/0				100-50-95	N/A			
7/LUSOM 7(N)	13/13	2009	Hay/Pasture	100-50-95	0/0				100-50-95	N/A			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress

Notes:

THE PLANNER IS NOT STATE CERTIFIED

Stepehn O Mast Narrative

This is the Stephen O Mast farm located in Lunenburg County. The farm consists of hay and pasture.

This is a partial plan written for the purpose of obtaining a biosolids permit. Biosolids applcation has not been shown since it is uncertain when a permit will be obtained. The partial plan will be revised prior to biosolids application to obtain a target biosolids application rate.

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
3848	LUSOM 1	9	[No Test]						
3848	LUSOM 2	11	[No Test]						
3848	LUSOM 3	24	[No Test]						
3848	LUSOM 4	9	[No Test]						
3848	LUSOM 5	7	[No Test]						
3848	LUSOM 6	5	[No Test]						
3848	LUSOM 7	13	[No Test]						

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
3848	3848/29	LUSOM 1	9	Cecil	IVb	IV II	III	IV	
	3848/25	LUSOM 2	11	Cecil	IVb	IV II	III	IV	
	3848/22 24	LUSOM 3	24	Cecil	IVb	IV II	III	IV	
	3848/6	LUSOM 4	9	Appling	IVb	IV II	III	IV	
	3848/6	LUSOM 5	7	Appling	IVb	IV II	III	IV	
	3848/14	LUSOM 6	5	Appling	IVb	IV II	III	IV	
	3848/7	LUSOM 7	13	Appling	IVb	IV II	III	IV	

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

Farm Summary Report

Plan: **New Plan** **Fall, 2009 - Winter, 2010**

Farm Name: **Stepehn O Mast**
Location: Lunenburg
Specialist: Recyc Systems

Tract Name: **3848**
FSA Number: 3848
Location: Lunenburg

Field Name: **LUSOM 1**
Total Acres: 8.70 Usable Acres: 8.70
FSA Number: 29
Tract: 3848
Location: Lunenburg
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Field Warnings:

Field Name: **LUSOM 2**
Total Acres: 11.30 Usable Acres: 11.30

FSA Number: 25
Tract: 3848
Location: Lunenburg
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Field Warnings:

Field Name: LUSOM 3
Total Acres: 23.80 Usable Acres: 23.80
FSA Number: 22 24
Tract: 3848
Location: Lunenburg
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Field Warnings:

Field Name: LUSOM 4

Total Acres: 9.10 Usable Acres: 9.10
FSA Number: 6
Tract: 3848
Location: Lunenburg
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Field Warnings:

Field Name: LUSOM 5

Total Acres: 7.10 Usable Acres: 7.10
FSA Number: 6
Tract: 3848
Location: Lunenburg
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Field Warnings:

Field Name: LUSOM 6

Total Acres:	5.10	Usable Acres:	5.10
FSA Number:	14		
Tract:	3848		
Location:		Lunenburg	
Slope Class:	B	Hydrologic Group:	B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Field Warnings:

Field Name: **LUSOM 7**
Total Acres: 12.50 Usable Acres: 12.50
FSA Number: 7
Tract: 3848
Location: Lunenburg
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

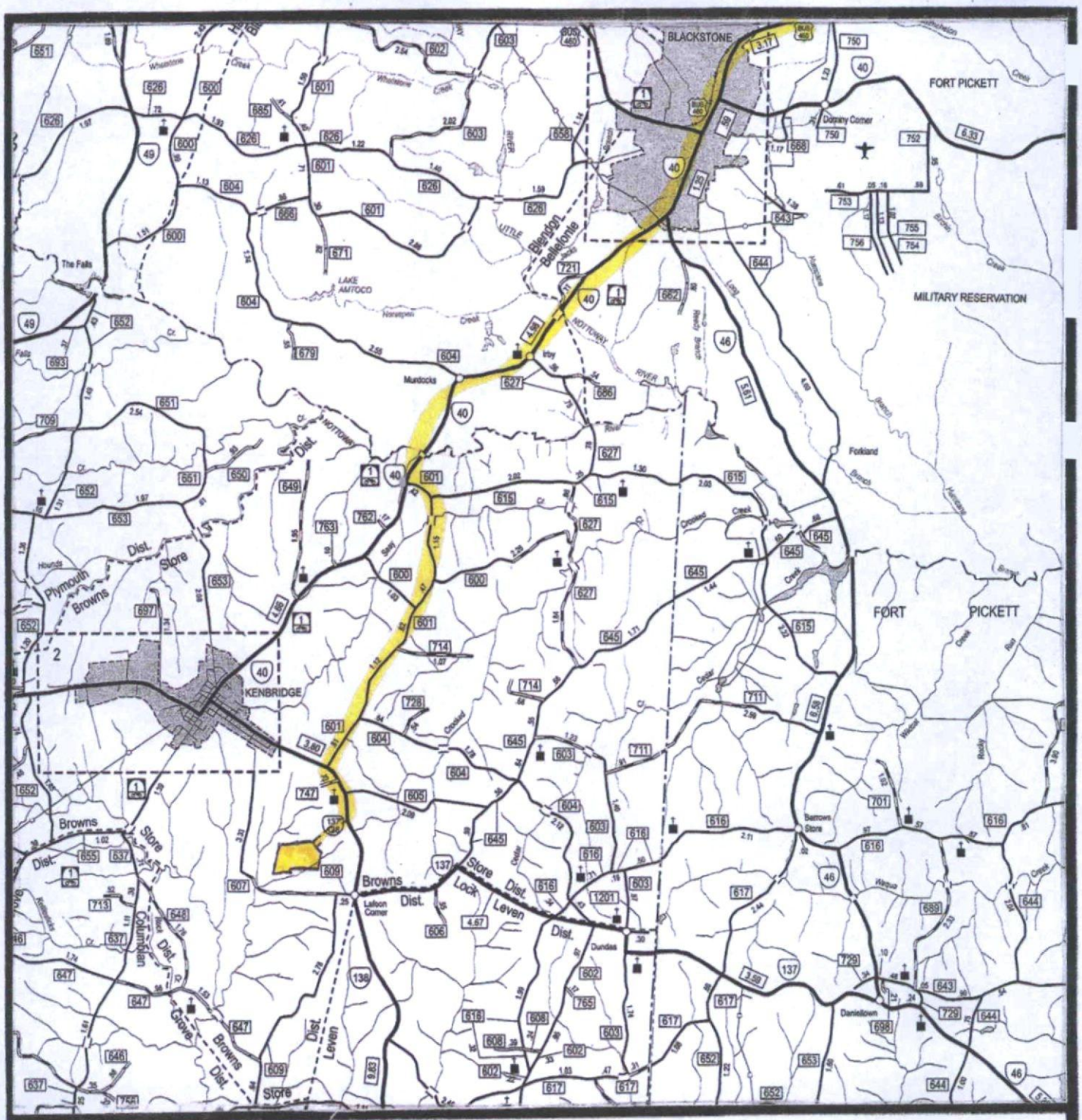
DATE	PH	P	K	Lab
[NO TEST]				

Field Warnings:

MAPS

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1 inch = 2 mile

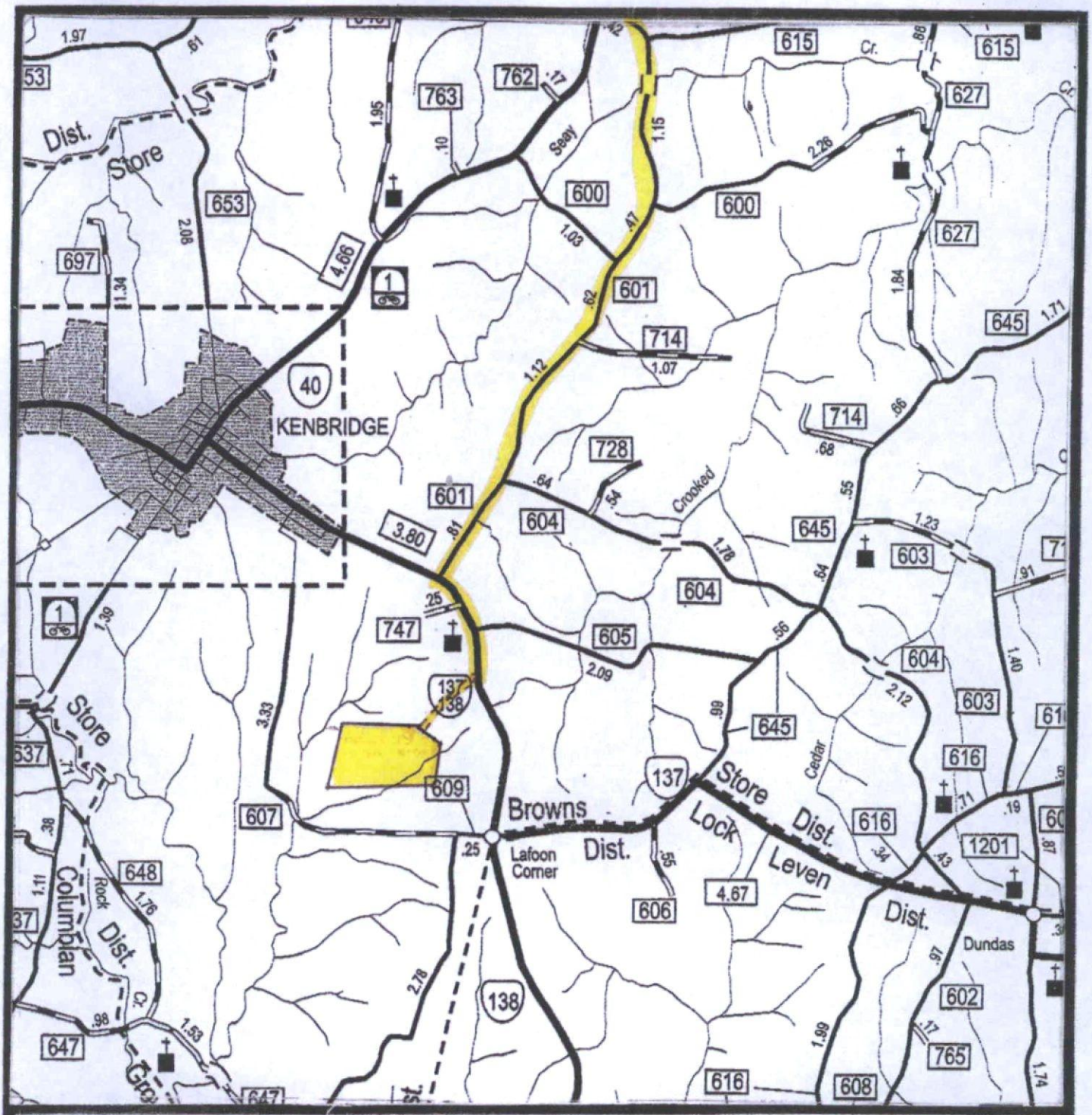
LUSOM 1-7

VICINITY MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1 inch = 1 mile

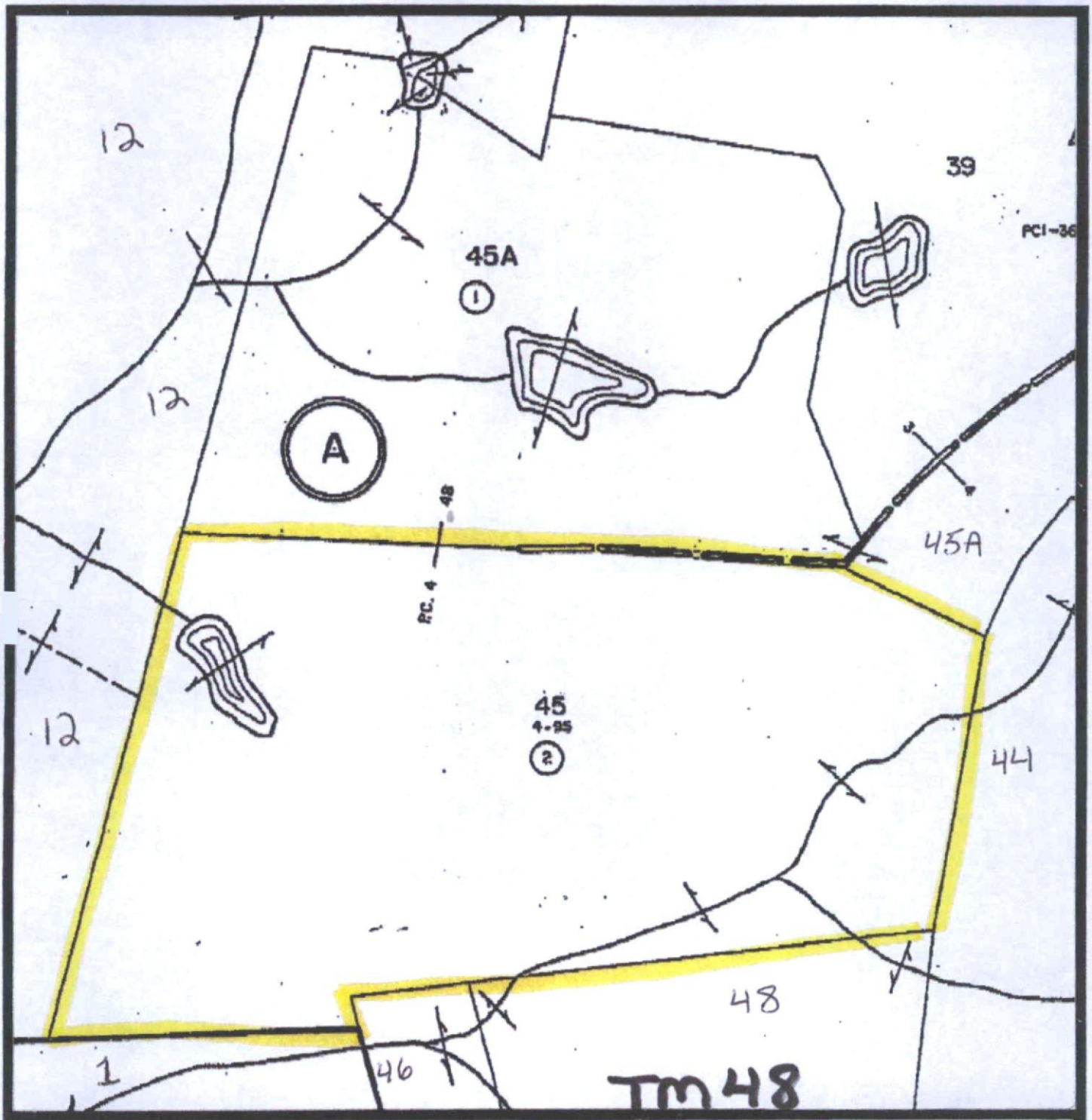
LUSOM 1-7

VICINITY MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet LUSOM 1-7

TAX MAP

N

ADJOINING LANDOWNERS

Stephen O. Mast Site

LUNENBURG COUNTY

Tax Map	Parcel #	Owner Name(s)
48(A)	1	John L. Blackwell estate
	12	Lewis G. or Lisa W. Tucker
	44	Ronald Moore
	45A	Nelson E. or Naomi A. Swartzentruber
	46	Mary B. Shelton
	48	Dick Purcell Land Cattle & Timber Corp.

Recyc Systems™ Inc.

(Biosolids Land Application)

Scale: 1 inch = 660 feet

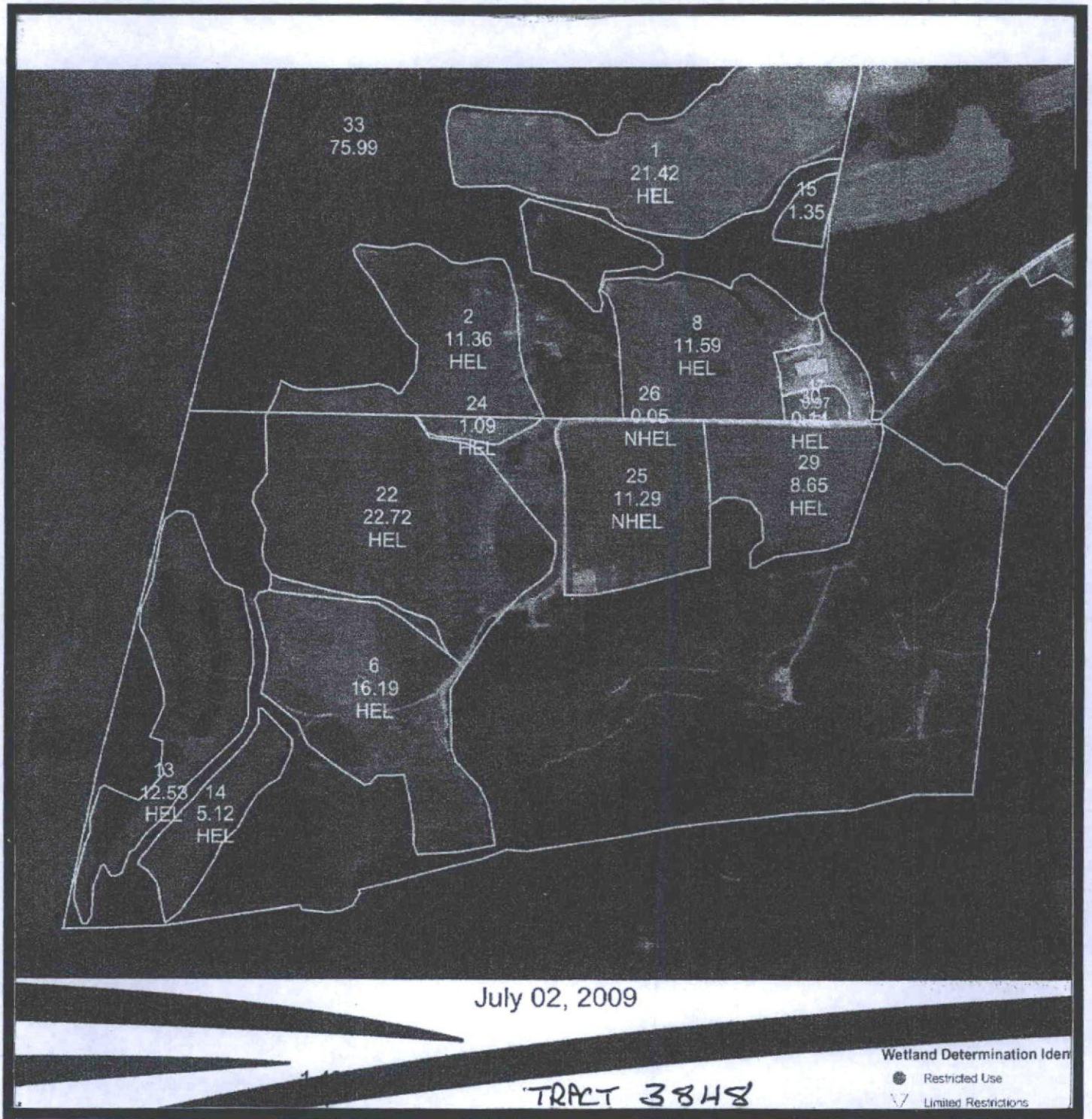
LUSOM 1-7

SOIL MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

LUSOM 1-7

AERIAL MAP

N

Legend for Site Plan

House and Well

Well / Spring

Perennial Streams & Surface

Wet Spot

Intermittent Stream / Drainage

Trees and Woods

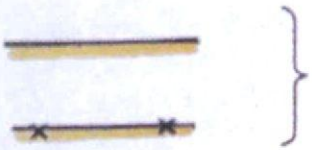
Private Drive

Rock / Rocky Area

Sinkhole

Severely Eroded Spot

State Road



Field Boundary / Fence

Property Line

Slope

Frequent Flooded Soil

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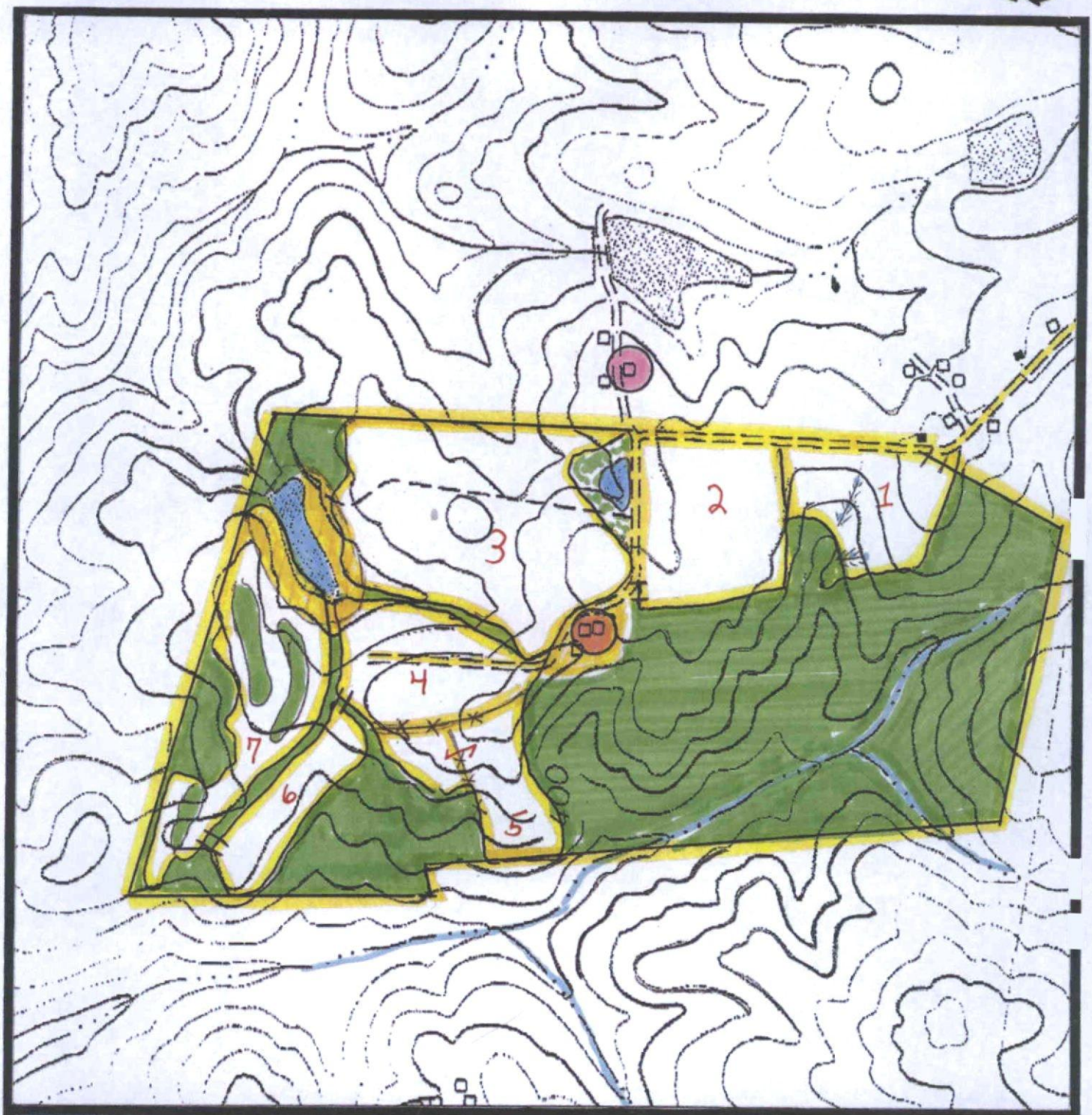

Scale: 1 inch = 660 feet

LUSOM 1-7

SITE PLAN

N

Recyc Systems™ Inc.

(Biosolids Land Application)

Scale: 1 inch = 2000 feet

LUSOM 1-7

TOPOGRAPHIC MAP

N